

Application No.: 10/719973
Docket No.: FL0214USNA

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Amendments to Claims

1. (canceled)
2. (currently amended) The process of claim 1 8 wherein the thickness of said overcoat is greater than the thickness of said lining undercoat.
3. (canceled)
4. (currently amended) The process of claim 1 8 wherein the thickness of said overcoat is at least about 1.5 mm (60 mils).
5. (canceled)
6. (currently amended) Process for rotolining the interior surface of a hollow article, comprising, adding a composition comprising consisting essentially of particles of fluorine treatment stabilized tetrafluoroethylene-perfluoro(alkyl vinyl ether) copolymer or unstabilized tetrafluoroethylene/perfluoro(methyl vinyl ether)/perfluoro(propyl vinyl ether) copolymer and adhesion-promoting, non-bubble promoting metal powder to the interior of said hollow article, said metal powder preventing said unstabilized copolymer from forming bubbles constituting no greater than about 2 wt% of said composition, rotating said article to distribute the composition over said interior surface, heating said article while it is rotating to melt said copolymer particles to form a continuous bubble-free lining comprising said copolymer and said metal powder on said interior surface, and cooling said article, and obtaining as a result thereof said bubble-free lining adhering to said surface, said adhering being characterized by a peel strength of at least about 25 lb/in.
7. (canceled)
8. (currently amended) Process of claim 6 and additionally overcoating said lining with said stabilized copolymer to give an overcoat with a thickness which is greater than the thickness of said lining.
9. (original) Process of claim 8 wherein said overcoat has a thickness of at least about 2.5 mm.
10. (canceled)
11. (canceled)

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12. (currently amended) Process of claim 11 6 wherein said metal powder is zinc.
13. (currently amended) Process of claim 11 6 wherein said metal powder contains tin.
14. (currently amended) Process of claim 11 6 wherein said metal powder contains copper.
15. (currently amended) Process of claim 11 6 wherein said metal powder is a combination of metals.
16. (original) Process of claim 15 wherein said combination of metals is selected from at least one of the group consisting of brass and bronze.
17. (original) Process of claim 6 wherein said stabilized copolymer has less than about 80 unstable end groups/ 10^6 carbon atoms in said copolymer.
18. (original) The process of claim 17 wherein said unstable end groups are -COOH, -CONH₂, -CH₂OH, -CO₂CH₃, -CF=CF₂, and -COF.
19. (original) The lining formed by the process of claim 6.
20. (currently amended) Composition for obtaining a bubble-free, adherent rotolining, said composition comprising consisting essentially of particles of fluorine treatment stabilized tetrafluoroethylene/ perfluoro(alkyl vinyl ether) copolymer and adhesion promoting, non-bubble promoting metal powder constituting no greater than about 2 wt% of said composition or particles of unstabilized tetrafluoroethylene/ perfluoro(methyl vinyl ether)/ perfluoro(propyl vinyl ether) copolymer and adhesion promoting, non-bubble-promoting powder.
21. (original) The composition resulting from the composition of claim 20 after melting and then cooling of said copolymer.
22. (new) The composition of claim 20 wherein said metal powder constitutes 0.3 to 1.2 wt% of said composition.
23. (new) The composition of claim 20 wherein said composition is a mixture of said particles of said stabilized copolymer and said metal powder.

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24. (new) Composition for obtaining a bubble-free, adherent rotolining, said composition consisting essentially of particles of tetrafluoroethylene/perfluoro(methyl vinyl ether)/perfluoro(propyl vinyl ether) copolymer and adhesion-promoting, non-bubble promoting metal powder constituting no greater than about 2 wt% of said composition.
25. (new) Process for rotolining the interior surface of a hollow article, comprising, adding a composition consistently essentially of particles tetrafluoroethylene/perfluoro(methyl vinyl ether)/perfluoro(propyl vinyl ether) copolymer and adhesion-promoting, non-bubble promoting metal powder to the interior of said hollow article, said metal powder constituting no greater than about 2 wt% of said composition, rotating said article to distribute the composition over said interior surface, heating said article while it is rotating to melt said copolymer particles to form a continuous bubble-free lining comprising said copolymer and said metal powder on said interior surface, and cooling said article, and obtaining as a result thereof said bubble-free lining adhering to said surface, said adhering being characterized by a peel strength of at least about 25 lb/in.
26. (new) The process of claim 6 wherein said metal powder constitutes 0.3 to 1.2 wt% of said composition.
27. (new) The process of claim 6 wherein said composition is a mixture of said particles of said stabilized copolymer and said metal powder.
28. (new) The process of claim 8 wherein the thickness of said overcoat is at least about 4 mm.